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TRANSPORTATION CORPS INTELLIGENCE STUDY OF HIGHWAYS AND INLAND WATERWAY PORT FACILITIES IN LAOS (AP 15-61)

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AP 15 - 61

INTRODUCTION

TRANSPORTATION CORPS INTELLIGENCE STUDY OF HIGHWAYS AND INLAND WATERWAY PORT FACILITIES IN LAOS

The information contained in this study is in answer to the requirements listed in SRI 6A - L - 61; and in general, verifies, supplements, or corrects data listed in Sections 32 and 33, Chapter III, NIS 43E, and other Transportation Corps Intelligence Documents.

The study is compiled in two parts; Part I lists highway information, and Part II contains data on inland waterway ports.

Highway information is tabulated, by section, on TOTIA Form - MAINTENANCE FORM FOR TRANSPORTATION CORPS INTELLIGENCE DOCUMENTS; is referenced to AMS Maps, Series L509, Scale 1:250,000, by UTM Grid Coordinates, and to overlays to these maps by annotation numbers. Reproduced copies of the overlays are not to scale. Each section of the study contains the data as it pertains to the geographical area on an individual map sheet, and not necessarily by the total distance between terminal points of a NIS selected route. Therefore, information relative to a particular NIS selected route may be contained in more than one section of the study. NIS selected routes are designated on the overlays by the selected route number. Other highways that are considered to be of logistical significance, or as being suitable as an alternate route for a NIS selected route are, for the purpose of this study, assigned an arbritary route number prefixed by the letter "X", and plotted on the overlays.

Highway widths listed are those of the narrowest section(s), between specified terminal points, that are of too frequent occurrence, or of too great length to allow special traffic control. Highway surface condition is listed as: POOR, POOR TO FAIR, FAIR, FAIR TO GOOD, or GOOD.

Inland waterway port information is listed in narrative form as it pertains to each facility. Particular items of information listed are: Physical characteristics of the discharge point, port clearance facilities, special cargo handling equipment, and storage facilities. There are no maps, sketches, or overlays included in this part of the study.

The metric scale is used for recording distances, and Universal Transverse Mercator Grid Coordinates are used for listing map locations.

The date of information used in compiling this study is [redacted] [illegible]

There is no information available on the geographical area of LAOS included in the following map sheets (AMS, Series L509, Scale 1:250,000): NF 47-8, NF 47-12, NF 47-15, NF 47-16, NE 47-3, NE 47-4, NE 47-8, NE 47-12, NF 48-5, NF 48-9, ND 48-7, and ND 48-11.

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PART I - HIGHWAYS

INDEX TO NIS SELECTED ROUTE NUMBERS:

NIS ROUTE NO	PAGE(S)	SECTION(S) OF STUDY	MAP SHEET NO(S)	INCLOSURE NO(S)
20A	25	14	ND 48-3	15
20C	25, 28	14, 15	ND 48-3, ND 48-4	15, 16
28B	26	14	ND 48-3	15
35A	16	8	NE 48-9	9
35B	9, 10, 16	5, 8	NE 48-9, NE 48-5	6, 9
35C	4, 10	3, 5	NE 48-5, NE 48-1	4, 6
35D	1, 4	1, 3	NF 48-13, NE 48-1	2, 4
40A	20, 21	11, 12	NE 48-14, NE 48-15	12, 13
46A	20, 21	11, 12	NE 48-14, NE 48-15	12, 13
46B	22, 24	12, 13	NE 48-15, NE 48-16	13, 14
55A	6, 8, 14	3, 4, 6	NE 48-1, NE 48-2, NE 48-6	4, 5, 7
60B	17, 19	9, 10	NE 48-10, NE 48-11	10, 11
70B	11, 13, 16	5, 6, 8	NE 48-5, NE 48-6, NE 48-9	6, 7, 9
70C	13	6	NE 48-6	7
75A	25	14	ND 48-3	15
75B	17, 19, 20, 21, 25	9, 10, 11, 12, 14	NE 48-10, NE 48-11, NE 48-14, NE 48-15, ND 48-3	10, 11, 12, 13, 15
75C	14, 17, 18	6, 9	NE 48-6, NE 48-10	7, 10
81F	2	2	NF 48-14	3
87D	14, 15, 19	6, 7, 10	NE 48-6, NE 48-7, NE 48-11	7, 8, 11
90B	5	3	NE 48-1	4
94C	7, 8	3, 4	NE 48-1, NE 48-2	4, 5
103C	23, 27	12, 14	NE 48-15, NE 48-3	13, 15
106D	2	2	NF 48-14	3
107B	26	14	ND 48-3	15
115B	26, 28, 29	14, 15, 16,	ND 48-3, ND 48-4, ND 48-8	15, 16, 17

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PART I - HIGHWAYS (CONT'D)

INDEX TO SECTIONS OF STUDY

SECTION NO	PAGE NO(S)	INCL NO	MAP SHEET NO	MIS SELECTED ROUTE NO(S)	OTHER ROUTES
1	1	2	NF 48-13	35D	X-3
2	2, 3	3	NF 48-14	81F, 106D	X-5
3	4, 5, 6, 7	4	NE 48-1	35C, 35D, 55A, 90B, 94C	
4	8	5	NE 48-2	55A, 94C	X-4
5	9, 10, 11, 12	6	NE 48-5	35B, 35C, 70B	X-1
6	13, 14	7	NE 48-6	55A, 70B, 70C, 75C, 87D	
7	15	8	NE 48-7	87D	
8	16	9	NE 48-9	35A, 35B, 70B	X-2
9	17, 18	10	NE 48-10	60B, 75B, 75C	X-6
10	19	11	NE 48-11	60B, 75B, 87D	
11	20	12	NE 48-14	40A, 46A, 75B	
12	21, 22, 23	13	NE 48-15	40A, 46A, 46B, 75B, 103C	
13	24	14	NE 48-16	46B	
14	25, 26, 27	15	ND 48-3	20A, 20C, 28B, 67A, 75A, 75B, 103C, 107B, 115B	
15	28	16	ND 48-4	20C, 115B	
16	29	17	ND 48-8	115B	

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PART I - HIGHWAYS (CONT'D)

INDEX TO ENCLOSURES:

ENCLOSURE NO	IDENTIFICATION
1 A	Index to AMS Map Sheets, Series L509, Scale 1:250,000 (Overlay to Base Map 26372.1 4-58, LACS, Scale 1:750,000)
1 B	NIS Selected Route Designation (Overlay to Base Map 26372.1 4-58, LACS, Scale 1:750,000)
1	Base Map 26372.1 4-58, Scale 1:750,000
2	Overlay to AMS Map Sheet, NF 48-13
3	Overlay to AMS Map Sheet, NF 48-14
4	Overlay to AMS Map Sheet, NE 48-1
5	Overlay to AMS Map Sheet, NE 48-2
6	Overlay to AMS Map Sheet, NE 48-5
7	Overlay to AMS Map Sheet, NE 48-6
8	Overlay to AMS Map Sheet, NE 48-7
9	Overlay to AMS Map Sheet, NE 48-9
10	Overlay to AMS Map Sheet, NE 48-10
11	Overlay to AMS Map Sheet, NE 48-11
12	Overlay to AMS Map Sheet, NE 48-14
13	Overlay to AMS Map Sheet, NE 48-15
14	Overlay to AMS Map Sheet, NE 48-16
15	Overlay to AMS Map Sheet, ND 48-3
16	Overlay to AMS Map Sheet, ND 48-4
17	Overlay to AMS Map Sheet, ND 48-8

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PART II - INLAND WATERWAY PORTS

PORT LOCATION	PAGE NO
LUANG PRABANG	30
VIENTIANE	30
PAKSANE	30
THAKHET	30
SAVANNAKHET	30

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SECTION 1

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MAP SHEET NF 48-13, SERIES 1509, SCALE 1:250,000

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LAOS

Road Data for Revision of MIS and LOC Studies

[redacted]

ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION	BOTTLENECKS			

ROUTE 35D: (This selected route does not exist as plotted on map sheets. Intermittent and intersecting trails, with no continous alinement, exist in the area through which the route is plotted. These trails are not suitable for motor vehicle traffic.)

END OF REPORT ON ROUTE 35D

ROUTE X-3 From SH 992240 to TH 387903
From SH 992240 to TH 132463 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, hilly
From TH 132463 to TH 387903 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, undulating

SH 992240	1	--	--	--	--	Route originates at MEKONG RIVER; there is no connecting or intersecting road that is suitable for use by motor vehicle traffic
TH 395908	2	--	--	--	--	There are no connecting or intersecting roads N of this point that are suitable for use by motor vehicle traffic. Intermittent trails exist, however continuous alinement cannot be confirmed

END OF REPORT ON ROUTE X-3

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NF 48-13

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SECTION 2

[redacted]

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MAP SHEET NF 48-14, SERIES L509, SCALE 1:250,000

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LAOS

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ANNOTATION NUMBER	BRIDGES / BOTTLENECKS ITEM	DESCRIPTION			
ROUTE 81F: From VH 432731 (Jct with Rt 1060) to VH 470920 (NORTH VIETNAM BORDER)					
From VH 432731 to VH 412900 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Poor, mountainous					
From VH 412900 to VH 470920 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Poor, flat					
VH 391811	1	Ford	[redacted] Xing		
VH 370861	2	Ford	[redacted] Xing		
VH 364902	3	Ferry	106 m Xing	2 Ferryboats [redacted]	
END OF REPORT ON ROUTE 81F					
ROUTE 1060: From VH 011571 to VH 587730 (NORTH VIETNAM BORDER)					
From VH 011571 to VH 432731 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, hilly					
From VH 432731 to VH 587730 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, flat					
VH 012573	4	Bridge	[redacted] long	[redacted] wide	Deck
VH 042593	5	Ford	6 m Xing		
VH 050608	6	Ford	6 m Xing		
VH 062613	7	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 110637	8	Ford	[redacted] Xing		
VH 204646	9	Ford	[redacted] Xing		
VH 253646	10	Ford	[redacted] Xing		
VH 328680	11	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 332691	12	—	—	—	— New alinement to VH 376706
VH 352704	13	Ford	No details		
VH 355706	14	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 365707	15	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 382708	16	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 398714	17	Bridge	[redacted] long	[redacted] wide	Deck, wood
VH 433733	18	Ferry	182 m Xing		Ferryboat [redacted]
VH 453738	19	Ford	No details		
VH 464735	20	Ford	No details		
END OF REPORT ON ROUTE 1060					

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MAP SHEET NF 48-14, SERIES 1509, SCALE 1:250,000

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LAOS — Road Data for Revision of NIS and LOC Studies

JUNCTATION	FEATURES	NOTES
ROUTE K-5: From UH 626119 to YH 011471		
From UH 626119 to UH 694275 - WIDTH: [redacted]	SURFACE: Improved earth - CONDITION: Poor, mountainous	(All sections suitable for use by)
From UH 694275 to UH 973473 - WIDTH: [redacted]	SURFACE: Improved earth - CONDITION: Fair, hilly	(motor vehicle traffic)
From UH 973473 to YH 011471 - WIDTH: [redacted]	SURFACE: Gravel - CONDITION: Fair to good, undulating	( )
UH 665155 21	Ford	No details
UH 695268 22	Ford	No details
UH 695275 23	Ford	No details
UH 821349 24	Ford	No details
UH 827349 25	Ford	No details
UH 915344 26	—	— — — Road, 1.5 m wide, improved earth, poor, extends to UH 888387
UH 974477 27	Bridge	No details
YH 006547 28	Bridge	[redacted] long [redacted] wide

END OF REPORT ON ROUTE K-5

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NF 48-14

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SECTION 3

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MAP SHEET NE 48-1, SERIES 1501, SCALE 1:250,000

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LAOS

Road Data for Revision of NIC and LOC Studies

[redacted]

ANNOTATION NUMBER	ITEM	DESCRIPTION				REMARKS	
ROUTE 35C: From TG 315026 to TH 005019 (LUANG PRABANG)							
WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Poor to fair, mountainous							
TG 306045	1	Bridge	[redacted]	long	[redacted]	wide	
TG 296115	2	Ford		Xing			
TG 113164	3	Ford		Xing			
TG 110165	4	Ford		Xing			
TG 094223	5	Ford		Xing			Replaces bridge, item No 11, Eng Bridge List
TG 100244	6	Bridge		long	[redacted]	wide	Confirms item No 12, Eng Bridge List
TG 141302	7	Ford		Xing			Replaces bridge, item No 13, Eng Bridge List
TG 067738	8	Ford		Xing			
TG 068779	9	Bridge		long	[redacted]	wide	
TG 066782	10	Ford		Xing			
TG 070780	11	—	—		—	—	Existence of tunnel at or near this location(item No2, Eng Bottleneck List) cannot be confirmed
TG 050873	12	Ford	[redacted]	Xing			Replaces bridge, item No 14, Eng Bridge List
TG 055908	13	Bridge		long	[redacted]	wide	
SH 997985	14	Bridge		long		wide	
TH 005019	15	—	—		—	—	Bituminous surface within city; approx [redacted]
END OF REPORT ON ROUTE 35C							
ROUTE 35D: From TH 005019 (LUANG PRABANG) to TH 152136							
WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, undulating							
TH 015029	16	Bridge	152 m long		[redacted]	wide	Thru truss; 3 span
TH 154124	17	—	—		—	—	Changes item No 15, Eng Bridge List, End of road that will sustain motorized traffic; continues as 1 m wide trail

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END OF REPORT ON ROUTE 35D

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MAP SHEET NE 43-1, SERIES 1509, SCALE 1:250,000

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Road Data for Revision of MIS and LOC Studies

ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION	BOTTLENECKS
ROUTE 908: From TG 305521 (Jct with Rt 353) to UG 287375 (XIENG KHOUANG)			
From TG 305521 to TG 770615 - WIDTH [redacted] - SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, mountainous			
From TG 770615 to UG 003607 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair, hilly			
From UG 003607 to UG 287375 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair, flat			
TG 882619	18	Ford	No details
TG 926600	19	Bridge	[redacted] long [redacted] wide
TG 973593	20	Bridge	[redacted] long [redacted] wide
UG 002607	21	Bridge	No details
UG 015578	22	Bridge	[redacted] long [redacted] wide
UG 026564	23	Ford	[redacted] Xing
UG 028562	24	Ford	[redacted] Xing
UG 041535	25	Bridge	[redacted] long [redacted] wide
UG 042534	26	Bridge	[redacted] ong [redacted] wide
UG 041533	27	Bridge	[redacted] ong [redacted] wide
UG 046542	28	Bridge	[redacted] long [redacted] wide
UG 060498	29	Ford	[redacted] Xing
UG 084478	30	Bridge	[redacted] long [redacted] wide
UG 094459	31	Bridge	[redacted] long [redacted] wide
UG 160430	32	Bridge	[redacted] ong [redacted] wide
UG 195419	33	Bridge	[redacted] wide [redacted] wide
UG 234406	34	Bridge	[redacted] long [redacted] wide
UG 271390	35	Bridge	[redacted] long [redacted] wide
UG 279387	36	Bridge	[redacted] long [redacted] wide
UG 287377	37	Bridge	[redacted] long [redacted] wide

Changes item No 86, Eng Bridge List
Confirms item No 87, Eng Bridge List

END OF REPORT ON ROUTE 908

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MAP SHEET NE 48-1, SERIES L509, SCALE 1:250,000

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LAOS

Road Data for Revision of NIS and LOC Studies

[redacted]

ANNOTATION NUMBER	ITEM	BRIDGES / BOTTLENECKS DESCRIPTION

ROUTE 55A: From UG 422046 to UG 287375 (XIENG KHOUANG)
WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor to fair, mountainous

END OF REPORT ON ROUTE 55A

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ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION	BOTTLENECKS
ROUTE 940: From UG 064516 (Jct with Rt 908) to UG 427729			
From UG 064516 to UG 160543 - WIDTH: [redacted]		SURFACE: Gravel - CONDITION: Good, flat	
From UG 160543 to UG 250580 - WIDTH:		SURFACE: Gravel - CONDITION: Good, undulating	
From UG 250580 to UG 427729 - WIDTH:		SURFACE: Gravel - CONDITION: Fair, hilly	
UG 100509	38	—	Bypass road [redacted] wide, gravel, good, to UG 082430
UG 105511	39	Bridge [redacted] long [redacted] wide	
UG 108517	40	Bridge [redacted] long [redacted] wide	
UG 165546	41	Bridge [redacted] long [redacted] wide Deck	
UG 212566	42	Bridge [redacted] long [redacted] wide	
UG 226564	43	Bridge [redacted] long [redacted] wide	
UG 392710	44	Bridge [redacted] long [redacted] wide	
UG 421727	45	Bridge [redacted] long [redacted] wide	

END OF REPORT ON ROUTE 940

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-1

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SECTION 4

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MAP SHEET NE 48-2, SERIES L509, SCALE 1:250,000

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LAOS

Road Data for Revision of MIS and LOC Studies

ANNOTATION NUMBER	ITEM	BRIDGES--- DESCRIPTION			BOTTLENECKS	

ROUTE 94C: From UG 427729 to VG 035534 (NORTH VIETNAM BORDER)

From UG 427729 to UG 500705 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Fair, flat

From UG 500705 to UG 630666 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair,flat

From UG 630666 to VG 035534 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Poor, mountainous

UG 583712	1	Bridge	[redacted]	long	[redacted] wide	Deck	Confirms item No 83, Eng Bridge List
UG 604656	2	Ford		Xing			
UG 604657	3	Ferry		Xing		Ferryboat, [redacted]	Confirms item No 9, Eng Bottleneck List
UG 619657	4	Ford		Xing			
UG 706672	5	Bridge	[redacted]	Long	[redacted] Wide		

END OF REPORT ON ROUTE 94C

ROUTE 55A: From UG 522012 to UG 422046

WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, mountainous, probably limited to jeep-type vehicle use

END OF REPORT ON ROUTE 55A

ROUTE X-4: From UG 499705 to UH 626119

WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor; suitable for use by motor vehicle traffic

END OF REPORT ON ROUTE X-4

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-2

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SECTION 5

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MAP SHEET NE 48-5, SERIES 1509, SCALE 1:250,000

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LAOS

Road Data for Revision of NIS and IOC Studies

ANNOTATION NUMBER	ITEM	BRIDGES — DESCRIPTION		BOTTLENECKS		
ROUTE 25B: From TE 409919 to TF 314940 (VANG VIENG)						
From TE 409919 to TF 238367 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair to Good, flat						
From TF 238367 to TF 191675 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair, hilly						
From TF 191675 to TF 314940 - WIDTH [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, mountainous						
TF 380017	1	Bridge	[redacted] long	[redacted] wide	Deck	
TF 371037	2	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
TF 364111	3	Bridge	[redacted] long	[redacted] wide	Deck	
TF 361123	4	Bridge	[redacted] long	[redacted] wide	Deck	
TF 354167	5	Bridge	[redacted] long	[redacted] wide	Deck	
TF 351175	6	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 1, Eng Bridge List
TF 344180	7	Bridge	[redacted] long	[redacted] wide	Deck	
TF 309277	8	Bridge	[redacted] long	[redacted] wide	Deck	
TF 283338	9	Bridge	[redacted] long	[redacted] wide	Deck	
TF 266410	10	Bridge	[redacted] long	[redacted] wide	Deck	
TF 267426	11	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
TF 269433	12	Bridge	[redacted] long	[redacted] wide	Deck	
TF 280479	13	Culvert	[redacted]		--	Replaces bridge, item No 2, Eng Bridge List
TF 286502	14	Bridge	[redacted] long	[redacted] wide	Deck	
TF 247536	15	Bridge	[redacted] long	[redacted] wide	Deck	
TF 182594	16	Bridge	[redacted] long	[redacted] wide	Deck	
TF 182603	17	Bridge	[redacted] long	[redacted] wide	Deck	
TF 181625	18	Bridge	144 m long	[redacted] wide	Steel, thru truss	Not in use; 1 span damaged;there is no bypass bridge(Item No 3, Eng Bridge List); crossing probably by small raft
TF 191675	19	Bridge	[redacted] long	[redacted] wide	Deck	
TF 195682	20	Bridge	[redacted] long	[redacted] wide	Deck	Confirms item No 4, Eng Bridge List
TF 233727	21	Bridge	[redacted] long	[redacted] wide	Deck	
TF 299784	22	Bridge	[redacted] long	[redacted] wide	Deck	Confirms item No 5, Eng Bridge List
TF 337796	23	Bridge	[redacted] long	[redacted] wide	Deck	
TF 364794	24	Bridge	[redacted] long	[redacted] wide	Deck	Confirms item No 6, Eng Bridge List
TF 387783	25	Bridge	[redacted] long	[redacted] wide	Deck, 3 span	Confirms item No 7, Eng Bridge List

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LAOS

Road Data for Revision of NIS and LOC Studies

[redacted]

	ANNOTATION NUMBER	BRIDGES ITEM	DESCRIPTION			BOTTLENECKS
TF 407851	26	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Confirms item No 8, Eng Bridge List
TF 398865	27	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Confirms item No 9, Eng Bridge List
TF 323927	28	Bridge	[redacted] long	[redacted] wide	Deck	

END OF REPORT ON ROUTE 35B

ROUTE 352: From TF 314240 (VANG VIENG) to TG 315026

WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Poor to fair, flat

TG 317002	29	Bridge	[redacted] long	[redacted] wide		Confirms item No 10, Eng Bridge List

END OF REPORT ON ROUTE 352

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Road Data for Revision of NIS and LOC Studies

[redacted]

ANNOTATION NUMBER	ITEM	BRIDGES DESCRIPTION			BOTTLENECKS	
ROUTE 708: From TE 514918 to UF 415297						
WIDTH [redacted] SURFACE: Gravel (Exception listed below) CONDITION: Good, flat						
TE 524957	30	—	—	—	—	Intersecting trail, improved earth, 2 m wide, extends W to TE 430988, then widens to a [redacted] roadbed under construction, ending at TE 328975
TE 534979	31	—	—	—	—	Bituminous treated to TF 605001
TF 605001	32	—	—	—	—	Intersecting roadbed [redacted] wide, under construction, extends N to TF 607071
TF 941060	33	—	—	—	—	Improved earth road, [redacted] wide, extend NW to river and ferry
TF 950105	34	Ferry	152 m Xing			Confirms item No 6, Eng Bottleneck List
UF 010166	35	Bridge	[redacted] long	[redacted] wide		
UF 019171	36	Bridge	[redacted] long	[redacted] wide		
UF 090246	37	—	—	—	—	Improved earth, sporadic gravel, road, [redacted] wide, extends SSE to river bank
UF 097307	38	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 77, Eng Bridge List
UF 099316	39	Bridge	113 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 78, Eng Bridge List
UF 108348	40	Bridge	[redacted] long	[redacted] wide	Deck	
UF 155366	41	—	—	—	—	Improved earth road, [redacted] wide, extends SE to river bank
UF 207387	42	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 79, Eng Bridge List
UF 240391	43	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 80, Eng Bridge List
UF 312408	44	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 81, Eng Bridge List
UF 348397	45	—	—	—	—	Improved earth road extends S to river bank
UF 351396	46	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Changes item No 82, Eng Bridge List
UF 380390	47	Bridge	[redacted] long	[redacted] wide	Deck	Confirms item No 83, Eng Bridge List
UF 415397	48	—	—	—	—	Improved earth road [redacted] wide, extends SW to river bank

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END OF REPORT ON ROUTE 708

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LAOS

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[redacted]

ANNOTATION NUMBER	BRIDGES -- ITEM	DESCRIPTION	BOTTLENECKS		
ROUTE X-1: From TE 534979 (Jct with Rt 7QR) to TF 273466 (Jct with Rt 25P)					
From TE 534979 to TF 402391 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Good, flat					
From TF 402391 to TF 273466 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Good, flat					
TF 492060	49	Ferry	121 m Xing		Ferryboat [redacted] 6 ponton
TF 538274	50	Bridge	[redacted] long	[redacted] wide	Deck
TF 505319	51	Bridge	long	wide	Deck, 3 span
TF 465318	52	Bridge	long	wide	Deck, 2 span
TF 440318	53	Bridge	long	wide	
TF 408370	54	Bridge	wide	wide	
TF 407391	55	Ferry	198 m Xing		Ferryboat [redacted] 6 ponton
TF 292469	56	Bridge	[redacted] long	wide	Deck

END OF REPORT ON ROUTE X-1

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-5

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LAOS

Road Data for Revision of NIS and LOC Studies

[redacted]

ANNOTATION NUMBER	ITEM	BRIDGES-- DESCRIPTION				BOTTLENECKS
ROUTE 708: From UF 415292 to UF 561340						
WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat						
UF 513348	1	—	—	—	—	Improved earth road, [redacted] wide, poor, extends S/ to river bank
UF 519347	2	Bridge	[redacted] long	6 m wide	Steel, half-thru truss	Confirms item No 84, Eng Bridge List
UF 556370	3	Bridge	[redacted] long	[redacted] wide	Deck	
END OF REPORT ON ROUTE 708						
ROUTE 709: From UF 561340 to VF 974114 (LAO SAO)						
From UF 561340 to UF 943260 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat						
From UF 943260 to VF 100200 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair, undulating						
From VF 100200 to VF 236019 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair to good, flat						
From VF 236019 to VF 506050 - Limited information; existence of route suitable for motor vehicle traffic is doubtful						
From VF 506050 to VF 690150 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor; not suitable for motor vehicle traffic						
From VF 690150 to VF 974114 - WIDTH [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, flat						
UF 572344	4	Ferry	[redacted] Xing			Confirms item No 7, Eng Bottleneck List
UF 575342	5	—	—	—	—	Gravel road, good [redacted] wide, extends S to river bank
UF 619347	6	Bridge	[redacted] long	6 m wide	Deck	
UF 756275	7	Bridge	76 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 85, Eng Bridge List
UF 942260	8	Ferry	609 m Xing			Confirms item No 8, Eng Bottleneck List
VF 041229	9	Bridge	[redacted] long	[redacted] wide	Wood, half-thru truss	
VF 152143	10	Bridge	[redacted] long	[redacted] wide	Wood, half-thru truss	
VF 180112	11	Bridge	[redacted] long	[redacted] wide	Wood, half-thru truss	
VF 210068	12	Ford	[redacted] Xing			
END OF REPORT ON ROUTE 709						

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Road Data for Revision of MIS and LOC Studies

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ANNOTATION NUMBER	ITEM	DESCRIPTION	BRIDGES -- BOTTLENECKS

ROUTE 87D: From VF 999090 to VF 999143

WIDTH [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, flat

VF 993096	13	Ford	[redacted]	Xing			

END OF REPORT ON ROUTE 87D

ROUTE 75C: From VE 266903 to VE 236019 (Jct with Rt 70C)

WIDTH [redacted] SURFACE: Improved earth - CONDITION: Fair, flat

VE 267926	14	Bridge	[redacted]	long	[redacted]	wide	Wood, half-thru truss
VE 267943	15	Bridge	[redacted]	long	[redacted]	wide	
VE 250978	16	Bridge	[redacted]	long	[redacted]	wide	

END OF REPORT ON ROUTE 75C

ROUTE 55A: From UF 561340 (Jct with Rt 70B and 70C) to UG 522012

From UF 561340 to UF 574400 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Fair, flat
From UF 574400 to UF 656527 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Fair, flat
From UF 656527 to UF 472757 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor, mountainous, probably limited to jeep-type vehicle use
From UF 656527 to UF 610948 - Limited information; existence of route suitable for motor vehicle traffic is doubtful
From UF 610948 to UG 522012 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor, mountainous, probably limited to jeep-type vehicle use
From UF 617689 to UF 481733 - Existence of map-plotted trail cannot be confirmed

END OF REPORT ON ROUTE 55A

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-6

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Country LAOS

Road Data for Revision of NIS and ICS Studies

	ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION			CULVERTS/DITCHES	
ROUTE 87D: From WE058900 to WF 000088 and from WF 000144 to WF 169328							
From WE 058900 to WF 000088 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor to fair, flat (exception listed below)							
From WF 000144 to WF 117260 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Fair, flat							
From WF 117260 to WF 169328 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor to fair, flat							
WE 053925	1	Bridge	[redacted] long	[redacted] wide	Wood, deck		
WE 057936	2	Ford (dry wash)					
WE 057940	3	—	—	—	—	Hilly to WE 052977	
WE 048998	4	Ford	27 m Xing				
WF 045005	5	—	—		—	Numerous dry washes to WF 000088	
WF 004150	6	Bridge	21 m long	[redacted] wide	Wood, deck		
WF 049198	7	Bridge	21 m long	[redacted] wide	Wood, deck		
WF 063215	8	Bridge	no details				
WF 082236	9	Bridge	109 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 50, Eng Bridge List	
WF 122269	10	Ford	4 m Xing				
WF 135282	11	Bridge	21 m long	[redacted] wide	Wood, deck		
WF 169326	12	Ford	[redacted] Xing				

END OF REPORT ON ROUTE 87D

END OF REPORT ON ROUTE SHOWN ON MAP SHEET NE 48-7

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LAOS

Road Data for Revision of MIS and LOC Studies

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ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION	BOTTLENECKS
ROUTE 35A: From TE 623800 to TE 472876 (VIENTIANE)			
From TE 623800 to TE 482818 - WIDTH: [redacted] with 1-m wide gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat			
From TE 482818 to TE 472876 - WIDTH: [redacted] SURFACE: Bituminous - CONDITION: Good, flat			
TE 623800	1	Ferry 728 m Xing	
TE 517775	2	Bridge [redacted] long [redacted] wide Deck	Confirms item No 1, Eng Bottleneck List
END OF REPORT ON ROUTE 35A			
ROUTE 35B: From TE 472876 (VIENTIANE) to TE 409919			
From TE 472876 to TE 416890 - WIDTH: [redacted] SURFACE: Bituminous - CONDITION: Good, flat			
From TE 416890 to TE 409919 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat			
END OF REPORT ON ROUTE 35B			
ROUTE 70B: From TE 472876 (VIENTIANE) to TE 514918			
WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat			
END OF REPORT ON ROUTE 70B			
ROUTE 1-2: From TE 482818 (paralleling MEKONG RIVER) to TE 550776			
From TE 482818 to TE 456761 - WIDTH: [redacted] with 1-m wide gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat			
From TE 456761 to TE 550776 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat			
END OF REPORT ON ROUTE X-2			
END OF REPORT ON ROUTE SHOWN ON MAP SHEET NE 48-9			

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LAOS — Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	ITEM	BRIDGES — DESCRIPTION			BOTTLENECKS
ROUTE 75B: From VD 940793 to VD 000939, and from VE 000048 to VE 814233 (Jct with Rt 60B)					
From VD 940793 to VD 986874 - WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat					
From VD 986874 to VE 814233 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Fair, flat					
		No bridge or bottleneck information available			
		END OF REPORT ON ROUTE 75B			
ROUTE 60B: From VE 795229 to VE 000296					
WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat					
VE 856283	1	Bridge	37 m long	[redacted] wide	Steel, half-thru truss — Confirms item No 74, Eng Bridge List
VE 907298	2	Bridge	43 m long	[redacted] wide	Steel, half-thru truss — Confirms item No 75, Eng Bridge List
		END OF REPORT ON ROUTE 60B			
ROUTE 752: From VE 823248 to VE 266900					
From VE 823248 to VE 747318 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat					
From VE 747318 to VE 538603 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat					
From VE 538603 to VE 266900 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat					
VE 747318	3	Bridge	73 m long	3 m wide	Steel, half-thru truss — Confirms item No 44, Eng Bridge List
VE 689397	4	Bridge	21 m long	[redacted] wide	Wood, deck
VE 669474	5	Bridge	24 m long	[redacted] wide	Wood, deck
VE 610527	6	Bridge	91 m long	[redacted] wide	Steel, half-thru truss — Confirms item No 45, Eng Bridge List
VE 601541	7	Bridge	43 m long	3 m wide	Wood, deck — Confirms item No 46, Eng Bridge List
VE 597543	8	Bridge	43 m long	3 m wide	Wood, deck — Confirms item No 47, Eng Bridge List
VE 540600	9	Bridge	100 m long	[redacted] wide	Steel, half-thru truss — Confirms item No 48, Eng Bridge List
VE 459655	10	—	—	—	Culverts under construction
VE 397723	11	Bridge	52 m long	[redacted] wide	Steel, thru truss
VE 355788	12	Bridge	12 m long	[redacted] wide	Wood, deck
VE 349794	13	Bridge	12 m long	[redacted] wide	Wood, deck
VE 330806	14	Bridge	52 m long	[redacted] wide	Steel, thru truss

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ANNOTATION NUMBER	FEATURE		DESCRIPTION	
VE 325815	15	Bridge	17 m long [redacted] wide	Wood, deck
VE 318820	16	Bridge	27 m long [redacted] wide	Wood, deck
VE 317823	17	Bridge	15 m long [redacted] wide	Wood, deck
VE 312828	18	Bridge	15 m long [redacted] wide	Wood, deck
VE 308832	19	Bridge	27 m long [redacted] wide	Wood, deck
VE 286857	20	Bridge	24 m long [redacted] wide	Wood, deck
VE 275888	21	Bridge	12 m long [redacted] wide	Wood, deck

END OF REPORT ON ROUTE 752

ROUTE X-6: From VE 562291 (Jct with Rt 752) to VE 544804
WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat

END OF REPORT ON ROUTE X-6

END OF REPORT ON ROUTE SHOWN ON MAP SHEET NE 48-10

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LAOS — Road Data for Revision of NIS and LOC Studies — [redacted]

ANNOTATION NUMBER	ITEM	BRIDGES / BOTTLENECKS DESCRIPTION				
ROUTE 87D: From WE 186412 to WE 068930						
WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, flat (Exception listed below)						
WE 188464	1	Bridge	48 m long	[redacted] wide	Wood, deck	Changes item No 49, Eng Bridge List
WE 186509	2	Bridge	24 m long	[redacted] wide	Wood, deck	
WE 185527	3	Ford	9 m Xing			
WE 182530	4	—	—		—	Hilly to WE 164580
WE 059732	5	Ferry	85 m Xing	[redacted]		Confirms item No 3, Eng Bottleneck List
WE 049854	6	Bridge	24 m long	[redacted] wide	Wood, deck	
END OF REPORT ON ROUTE 87D						
ROUTE 60B: From WE 000297 to WE 814533 (SOUTH VIETNAM BORDER)						
From WE 000297 to WE 165291 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Fair to good, flat						
From WE 165291 to WE 186412 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Fair, flat						
From WE 186412 to WE 510445 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor to fair, flat						
From WE 510445 to WE 783462 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, flat (Numerous dry washes)						
From WE 783462 to WE 814533 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, mountainous						
WE 184408	7	Bridge	24 m long	[redacted] wide	Wood, deck	
WE 243424	8	Bridge	58 m long	[redacted] wide	Steel, half-thru truss	
WE 494444	9	Bridge	No details			Confirms item No 76, Eng Bridge List
END OF REPORT ON ROUTE 60B						
ROUTE 75B: From WE 000939 to WE 000048						
WIDTH: [redacted] SURFACE: Gravel - CONDITION: Fair, flat						
No bridge or bottleneck information available						
END OF REPORT ON ROUTE 75B						
END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-11						

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LMS

Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	ITEM	DESCRIPTION	REMARKS

ROUTE 40A: From VD 735296 (SAVANNAKHET) to VD 000233
WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat

VD 793284	1	Bridge	42 m long	[redacted] wide	Steel, half-thru truss	

END OF REPORT ON ROUTE 40A

ROUTE 46A: From VD 732310 (SAVANNAKHET) to VD 000436
WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat

END OF REPORT ON ROUTE 46A

ROUTE 75B: From VD 000428 to VD 940793
WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat

VD 906644	2	Bridge	61 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 42, Eng Bridge List

END OF REPORT ON ROUTE 75B

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-14

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Road Data for Revision of NIS and LOC Studies

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ANNOTATION NUMBER	ITEM	BRIDGES / BOTTLENECKS DESCRIPTION			
ROUTE 40A: From WD 000233 to WD 041233 (Jct with Rt 75B)					
WIDTH: [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat					
END OF REPORT ON ROUTE 40A					
ROUTE 75B: From WD 522690 to WD 000428					
From WD 522690 to WD 146995 - WIDTH: [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous, with sporadic gravel repairs - CONDITION: Good, flat					
From WD 146995 to WD 114098 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat					
From WD 114098 to WD 000428 - WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat					
WD 518693	1	Bridge	130 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 39, Eng Bridge List
WD 472721	2	Bridge	49 m long	3 m wide	Concrete, deck	Confirms item No 40, Eng Bridge List
WD 432763	3	Bridge	14 m long	[redacted] wide	Deck	
WD 406795	4	Bridge	225 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 41, Eng Bridge List
WD 337868	5	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
WD 332878	6	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
WD 247942	7	Bridge	[redacted] long	[redacted] wide	Wood, half-thru truss	
END OF REPORT ON ROUTE 75B						
ROUTE 46A: From WD 000436 to WD 098223 (Jct with RT 1033)						
WIDTH: 3.04 m. with 1.5-meter gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat						
WD 132457	8	Bridge	12 m long	[redacted] wide	Wood, deck	
WD 298467	9	Bridge	[redacted] long	6 m wide	Wood, deck	
WD 312457	10	Bridge	100 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 57, Eng Bridge List
WD 605414	11	Bridge	103 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 58, Eng Bridge List
WD 751318	12	Bridge	[redacted] long	3 m wide	Steel, half-thru truss	Confirms item No 59, Eng Bridge List
WD 820318	13	Bridge	No details			
WD 973328	14	Bridge	128 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 60, Eng Bridge List
XD 049288	15	No information --		--	--	Item No 61, Eng Bridge List
XD 162342	16	No information --		--	--	Item No 62, Eng Bridge List
END OF REPORT ON ROUTE 46A						

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MAP SHEET NE 48-15, SERIES L509, SCALE 1:250,000

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Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	BRIDGES- ITEM	BOTTLENECKS DESCRIPTION

ROUTE 46B: From XD 098282 (Jct with Rt 1033) to XD 599374

From XD 098282 to XD 340443 - WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat
From XD 340443 to XD 530391 - WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat
From XD 530391 to XD 599374 - WIDTH [redacted] SURFACE: Gravel - CONDITION: Good, flat

XD 179352	17	Bridge	[redacted] long	[redacted] wide	Deck	
XD 182387	18	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Confirms item No 63, Eng Bridge List
XD 208442	19	No information	--		—	Item No 64, Eng Bridge List
XD 285468	20	Bridge	73 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 65, Eng Bridge List
XD 302462	21	Bridge	182 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 66, Eng Bridge List
XD 335450	22	No information	—		—	Item No 67, Eng Bridge List
XD 357439	23	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
XD 395422	24	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
XD 419414	25	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	
XD 430408	26	Bridge	73 m long	[redacted] wide	Steel, half-thru truss	Confirms item No 68, Eng Bridge List
XD 490404	27	Bridge	[redacted] long	[redacted] wide	Deck	
XD 512397	28	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	Confirms item No 69, Eng Bridge List
XD 519393	29	Bridge	[redacted] ong	[redacted] wide	Steel, half-thru truss	Confirms item No 70, Eng Bridge List
XD 546382	30	Bridge	[redacted] long	[redacted] wide	Steel, half-thru truss	

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Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	ITEM	REMARKS DESCRIPTION
ROUTE 1032: From X: 274692 to XD 098283 (Jct with Rts 46A and 46B)		
From XC 274692 to XD 070193 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor, flat (Construction in progress - widening, alinement and surface improvement - will, when completed, reclassify as: Fair to good		
From XD 070193 to XD 098283 - WIDTH [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat		
XC269718	31	Bridge [redacted] long [redacted] wide Steel, half-thru truss
XC 257756	32	Bridge [redacted] long [redacted] wide Deck
XC 258772	33	Bridge [redacted] long [redacted] wide Deck
XC 255781	34	Bridge [redacted] long [redacted] wide Deck
XC 204815	35	Bridge [redacted] long [redacted] wide Deck
XC 156832	36	Bridge [redacted] long [redacted] wide Deck
XC 123857	37	Bridge [redacted] long [redacted] wide Steel, half-thru truss
XC 099878	38	Bridge [redacted] long [redacted] wide Steel, half-thru truss
XC 093902	39	Bridge [redacted] long [redacted] wide Deck
XC 028998	40	Bridge 245 m long [redacted] wide Steel, thru truss Changes Item No 52, Eng Bridge List
XC 097275	41	Bridge [redacted] long [redacted] wide Steel, half-thru truss

END OF REPORT ON ROUTE 1032

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-15

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MAP SHEET NE 48-16, SERIES 1509, SCALE 1:250,000

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LAOS

Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	ITEM	BRIDGES DESCRIPTION			POTTIENTIONS
ROUTE 468: From XD 600374 to XD 699382 (SOUTH WESTERN LOOP)					
WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat					
XD 602374	1	Bridge	42 m long	[redacted] wide	—	Confirms item No 71, Eng Bridge List
XD 626380	2	Bridge	No details			
XD 658378	3	Bridge	29 m long	wide	Steel, half-thru truss	
XD 671379	4	Bridge	79 m long	wide	Steel, half-thru truss	Confirms item No 72, Eng Bridge List
XD 678380	5	Bridge	64 m long	wide	Steel, half-thru truss	Confirms item No 73, Eng Bridge List
XD 698380	6	Bridge	9 m long	wide	Wood, deck	

END OF REPORT ON ROUTE 468

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NE 48-16

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MAP SHEET NO 48-3, SERIES 1509, SCALE 1:250,000

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LACC — Road Data for Revision of NIS and ICC Studies — [redacted]

ANNOTATION NUMBER	BRIDGES ITEM	BOTTLENECKS DESCRIPTION			
ROUTE 75A: From WB 984583 to WB 948708 (Jct with Rt 20B)					
There is no information available on this route					
ROUTE 75B: From WB 948708 (Jct with Rt 20B) to WC 523687					
From WB 948708 to WC 760464 - There is no information available on this section of this route					
From WC 760464 to WC 523687 - WIDTH: [redacted] with [redacted] gravel shoulders - SURFACE: Bituminous - CONDITION: Good, flat					
WB 858717	1	No information —	—	—	Item No 33, Eng Bridge List
WB 798908	2	No information —	—	—	Item No 34, Eng Bridge List
WC 823125	3	No information —	—	—	Item No 35, Eng Bridge List
WC 837193	4	No information —	—	—	Item No 36, Eng Bridge List
WC 773445	5	No information —	—	—	Item No 37, Eng Bridge List
WC 582588	6	Bridge [redacted] long	[redacted] wide	Steel, half-thru truss	Confirms item No 33, Eng Bridge List
END OF REPORT ON ROUTE 75B					
ROUTE 20A: From WB 866684 to WB 507730 (THAILAND BORDER)					
WIDTH: [redacted] SURFACE: Probable gravel - CONDITION: Good, flat					
WB 677731	7	No information —	—	—	Item No 55, Eng Bridge List
WB 708687	8	No information —	—	—	Item No 56, Eng Bridge List
WB 847690	9	No information —	—	—	Item No 54, Eng Bridge List
WB 856680	10	No information —	—	—	Item No 4, Eng Bottleneck List
END OF REPORT ON ROUTE 20A					
ROUTE 20C: From WB 948708 (Jct with Rts 75A and 75B) to XB 613722					
From WB 948708 to XB 323770 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat					
From XB 323770 to XB 613722 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Fair, flat					
No bridge or bottleneck information available					
END OF REPORT ON ROUTE 20C					

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MAP SHEET ND 48-3, SERIES 1509, SCALE 1:250,000

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LAOS — Road Data for Revision of NIS and LOC Studies

ANNOTATION NUMBER	BRIDGES ITEM	BRIDGES DESCRIPTION	BOTTLENECKS	BOTTLENECKS DESCRIPTION

ROUTE 107B: From XB 323770 (Jct with Rt 20C) to XC 530370 (SARAVANE)
From XB 323770 to XC 482057 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat
From XC 482057 to XC 396217 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat
From XC 396217 to XC 514370 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat
From XC 514370 to XC 530370 - WIDTH: [redacted] with [redacted] gravel shoulders - Surface: Bituminous - CONDITION: Good, flat

XC 469285 — 11 — No information — — — — Item No 53, Eng Bridge List

No bridge or bottleneck information available

END OF REPORT ON ROUTE 20C

ROUTE 115B: From XC 482057 (Jct with Rt 107B) to XC 610071
WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Fair, flat

No bridge or bottleneck information available

END OF REPORT ON ROUTE 115B

ROUTE 28B: From WC 866233 (Jct with Rt 72B) to XC 514370 (Jct with Rt 107B)
From WC 866233 to XC 433368 - There is no information available on this section of this route
From XC 433368 to XC 514370 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat

WC 875222 — 12 — No information — — — — Item No 5, Eng Bottleneck List

END OF REPORT ON ROUTE 28B

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MAP SHEET NO 48-3, SERIES 1501, SCALE 1:250,000

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LACC

Road Data for Revision of NIS and LOC Studies

[redacted]

ANNOTATION NUMBER	BRIDGES ITEM	DESCRIPTION	BOTTLENECKS
ROUTE 103C: From XC 433368 (Jct with Rt 22B) to XC 273690			
From XC 433368 to XC 386470 - WIDTH [redacted] - SURFACE: Gravel - CONDITION: Good, flat			
From XC 386470 to XC 273690 - WIDTH [redacted] SURFACE: Improved earth - CONDITION: Poor, flat (Construction in progress - widening, alinement and surface improvement - will, when completed, reclassify as: Fair to Good			
XC 405409	13	Bridge [redacted] long [redacted] wide	Deck
XC 382451	14	Bridge 124 ± long [redacted] wide	Steel, thru truss *
XC 386480	15	Bridge Under construction	
XC 389480	16	Bridge [redacted] long [redacted] wide	Deck
XC 389494	17	Bridge [redacted] long [redacted] wide	Deck
XC 386502	18	Bridge Under construction	
XC 378534	19	Bridge [redacted] long [redacted] wide	Steel, half-thru truss
XC 364542	20	Bridge [redacted] long [redacted] wide	Deck
XC 341557	21	Bridge [redacted] long [redacted] wide	Deck
XC 329587	22	Bridge [redacted] long [redacted] wide	Deck
XC 295639	23	Bridge [redacted] long [redacted] wide	Deck
XC 282678	24	Bridge [redacted] long [redacted] wide	Steel, half-thru truss

* Confirms item No 51, Eng Bridge List

END OF REPORT ON ROUTE 103C

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NO 48-3

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MAP SHEET NO 43-4, SERIES 1509, SCALE 1:250,000

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LAOS — Road Data for Revision of MIS and LOC Studies

ANNOTATION NUMBER	ITEM	BRIDGES / BOTTLENECKS DESCRIPTION
ROUTE 20C: From XB 613722 to XE 904963 (Jct with Rt 115B)		
From XB 613722 to XB 734701 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Fair, flat		
From XB 734701 to XB 904963 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, subject to flooding, unsuitable for use by motor vehicles		
END OF REPORT ON ROUTE 20C		
ROUTE 115B: From YB 001598 to XC 610072		
From YB 001598 to XB 840942 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Poor, flat, numerous dry washes		
From XB 840942 to XC 610072 - WIDTH: [redacted] SURFACE: Improved earth - CONDITION: Fair, flat		
XB 987651	1	Bridge [redacted] long [redacted] wide Deck
XB 898785	2	Bridge [redacted] long [redacted] wide Deck
XB 884828	3	Ferry 106 m Xing -- Raft [redacted] used for Xing
XB 887860	4	Bridge [redacted] long [redacted] wide Wood, deck
XB 844886	5	Ford 21 m Xing
XB 850950	6	Bridge 21 m long [redacted] wide Wood, deck
XC 846001	7	Bridge 20 m long [redacted] wide Wood, deck
XC 845010	8	Bridge [redacted] long [redacted] wide Wood, deck
XC 808033	9	Bridge [redacted] long [redacted] wide Wood, deck
END OF REPORT ON ROUTE 115B		
END OF REPORT ON ROUTES SHOWN ON MAP SHEET NO 43-4		

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MAP SHEET NO 48-8, SERIES L 509, SCALE 1:250,000

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LAOS — Road Data for Revision of NIS and LOC Studies — [redacted]

ANNOTATION NUMBER	ITEM	BRIDGES / ROUTE ENDINGS DESCRIPTION
ROUTE 115P: From YB 084379 (ATTOPEU) to YB 001590		
From YB 084379 to XB 992368 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat		
From XB 992368 to XB 955383 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat		
From XB 955383 to XB 953460 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, flat		
From XB 953460 to XB 999532 - WIDTH: [redacted] SURFACE: Gravel - CONDITION: Good, undulating		
From XB 999532 to YB 001590 - WIDTH: [redacted] SURFACE: Improved earth, sporadic gravel - CONDITION: Fair, undulating, numerous dry washes		
YB 079376	1	Bridge [redacted] long [redacted] wide Deck
YB 040367	2	Bridge [redacted] long [redacted] wide Under construction
YB 023374	3	Bridge [redacted] long [redacted] wide Deck
XB 988348	4	River Xing - no bridge - no information on crossing facilities
XB 981379	5	Bridge [redacted] long [redacted] wide Deck
XB 932403	6	Bridge [redacted] long [redacted] wide Deck
XB 931414	7	Bridge [redacted] long [redacted] wide Deck
XB 932436	8	Alinement as shown on map sheet - from XB 928410 to XB 922412 to XB 930432 to XB 964479 - does not exist
XB 953460	9	Bridge [redacted] long [redacted] wide Deck
XB 968458	10	Trail extending NW to XB 869989 - as shown on map sheet - does not exist
XB 974500	11	Bridge [redacted] long [redacted] wide Deck

END OF REPORT ON ROUTE 115P

END OF REPORT ON ROUTES SHOWN ON MAP SHEET NO 48-8

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PART II

INLAND WATERWAY PORTS

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LAOS — Inland Waterway Port Data for Revision of NIS — [redacted] 67

LUANG PRABANG: MEKONG RIVER - Map Sheet NE 48-1, Series L509, Scale 1:250,000

1310 meters of improved river bank allows cargo loading and discharge. City streets provide access to main highway, NIS Selected Route Number 35. River bank allows tie-up of craft to 25 meters in length [redacted] beam. 25X1D

VIENTIANE: MEKONG RIVER - Map Sheet NE 48-9, Series L509, Scale 1:250,000

Natural river bank allows cargo loading and discharge at various points S of VIENTIANE, primarily from TE 515720 to TE 495730; and from TE 470970 to TE 480340. Improved earth roads from the river bank at principal discharge points provide clearances to highways leading to VIENTIANE and to the LAOS - THAILAND ferry across the MEKONG RIVER. There is an unloading tipple located at TE 480340.

PAKSANE: MEKONG RIVER - Map Sheet NE 48-6, Series L509, Scale 1:250,000 25X1D

Natural river bank within town limits allows cargo loading and discharge. City streets provide access to a [redacted] gravel road extending N to main highway, NIS Selected Route Number 70.

THAKHET: VE 747918 - TRIBUTARY TO MEKONG RIVER - SOUTH OF THAKHET - Map Sheet NE 48-10, Series L509, Scale 1:250,000

Natural river bank allows loading and discharge of cargo; and allows tie-up for a maximum of four river craft, 25 meters in length [redacted] beam. 25X1D

SAVANNAKHET: MEKONG RIVER - Map Sheet NE 48-14, Series L509, Scale 1:250,000 25X1D

5120 meters of natural river bank allows loading and discharge of cargo. An improved earth road, [redacted] in width, paralleling the river bank at a distance of 75 meters, provides clearance to warehouses.

END OF REPORT ON INLAND WATERWAY PORT FACILITIES

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INCLOSURES TO

TRANSPORTATION CORPS INTELLIGENCE STUDY OF HIGHWAYS AND

INLAND WATERWAY PORT FACILITIES IN LAOS

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